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CATALYST FOR POLYMERIZING OLEFIN, TRANSITION METAL COMPOUND, POLYMERIZATION OF OLEFIN AND ALPHA-OLEFIN-CONJUGATED DIENE COPOLYMER

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Abstract

PROBLEM TO BE SOLVED: To obtain the subject catalyst capable of providing an α -olefin-conjugated diene copolymer having excellent olefin polymerization activity, a narrow distribution of molecular weight and scarcely containing a cyclopentane skeleton in the polymer chain by using a specific transition metal compound.

SOLUTION: This catalyst comprises (A) a transition metal compound represented by the formula [M is a group 3 to 11 transition metal; (m) is 1-6; $R_{<1>}$ to $R_{<6>}$ are each H, a halogen or the like; (n) is a number satisfying the valence of M; X is H, a hydrocarbon or the like] and (B) a compound selected from an organometallic compound, an organoaluminumoxy compound and a compound reactive with the component A and forming an ion pair. Compounds, or the like, in which M is a group 4 or 5 transition metal; (m) is 1-3; $R_{<1>}$ is a hydrocarbon; $R_{<2>}$ to $R_{<5>}$ are each H; $R_{<6>}$ and X are each a halogen are new compounds in the compound represented by the formula. The compound represented by the formula is obtained by reacting, e.g. salicylaldehydes with a primary amine compound represented by the formula $R_{<1>}-NH_2$ and then reacting the produced ligand with a transition metal-containing compound.

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